

Claims

1. An improved product form for an additive for rubber vulcanizates having increased scorch time when using said additive, comprising particles of a Bunte salt containing two or more groups of the formula $R-SO_3M$, or a hydrate thereof, linked by an organic bridging group, where R represents an alkyl group, an alkenyl group, a cycloaliphatic group, an aromatic group, a heterocyclic group, or a radical which is a combination of two or more of such groups, and M represents a monovalent metal or the equivalent of a multivalent metal, said particles having a mean particle size less than 15.0 micrometers.
2. The additive of claim 1 wherein said particles have a mean particle size of from about 1.0 to less than 15.0 micrometers.
3. The additive of claim 1 wherein R represents an alkyl group.
4. The additive of claim 3 wherein said additive comprises hexamethylene-1, 6-bis(thiosulfate), disodium salt, dihydrate.
5. A method for increasing the scorch time of a rubber vulcanizate, when using an additive, comprising adding to said vulcanizate particles of an additive comprising a Bunte salt containing two or more groups of the formula $R-SO_3M$, or a hydrate thereof, linked by an organic bridging group, where R represents an alkyl group, an alkenyl group, a cycloaliphatic group, an aromatic group, a heterocyclic group, or a radical which is a combination of two or more of such groups, and M represents a monovalent metal or the equivalent of a multivalent metal, said particles having a mean particle size less than 15.0 micrometers.
6. The method of claim 1 wherein R represents an alkyl group.

7. The method of claim 5 wherein said additive comprises hexamethylene-1, 6-bis(thiosulfate), disodium salt, dihydrate.